PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

EPO stamp

	Table Transport	TION See Form PCT/IPEA/416	
Applicant's or agent's file reference	FOR FURTHER AC	TION See Form 1 C1/11 L/2 U10	
WS 2255 PCT	International filing d	ate Priority date (Day/Month/Year)	
International application No.	(Day/Month/Year)		
DCT/ED3004/014799	29.12.2004	18.02.2004	
PCT/EP2004/014788 29.12.2004 16.02.2004 International Patent Classification (IPC) or national classification and IPC			
B65H54/42, B65H54/46, B65H54/48, B65H54/70			
Applicant			
Applicant			
SAURER GMBH & CO. KG et al.			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority according to Article 35 and transmitted to the Applicant according to Article 36.			
2. This REPORT consists of a total of 5 sheets, including this cover sheet.			
3. This report is also accompanied by ANNEXES, comprising a. Sheets (sent to the Applicant and to the International Bureau), as follows:			
and or description cloims and/or drawing which have been amended and are tile basis of this			
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Section 607 of the A	dministration instruction	ons).	
i	bur	t which this Authority considers contain an amendment	
that goes beyond the	e disclosure in the Int	ernational Application as filed, as indicated in Item 4 of	
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Person orbit a total of (indicate type and number of electronic carriers),			
1	-time and/on tobles rel	ated therein in electionic joint only, as managed	
supplemental box relating	g to the sequence listin	g (see Section 802 of the Administrative Instructions).	
4. This report contains indications relating to the following items:			
X Box No. I Basis of t	he renort		
D N. H. Deineite			
Box No. III Non-estal	blishment of opinions	with regard to novelty, inventive step and any industrial	
applicability			
D. N. D. Leaf of unity of invention			
V Day No V Personed	Reasoned statement under Article 35(2) with regard to novelty, inventive step and		
industrial	applicability; citation	s and explanations supporting such statement	
Box No. VI Certain documents cited			
V Boy No VII Certain d	Y Box No VII Certain defects in the international application		
Box No. VIII Certain observations on the international application			
Date of submission of the requ	est for preliminary	Date of completion of this report	
examination		11.01.2006	
13.08.2005			
Name and mailing address of the International Authorised officer			
Examining Authority:			
European Patent Office		Kising, A	

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International Application No. PCT/EP2004/014788

Box No. 1	Basis of the report
 With re language in wh 	egard to the language, this report is based on the International Application in the nich it was filed, if nothing different is stated under this point.
	The report is based on a translation from the original language into the following language, which is the language of the translation, which has been filed for the following purpose: □ international search (according to Rules 12.3 and 23.1b) □ publication of the international application (according to Rule 12.4) □ international preliminary examination (according to Rules 55.2 and/or 55.3)
1 1	egard to the elements* of the international application, the report is based on sheets which have been furnished to the receiving office in response to an ler Article 14 are referred to in this report as "originally filed" and are not annexed:
Description, 1-12	pages in the originally filed version
Claims, No. 1-9	in the originally filed version
Drawings, sh 1/5-5/5	in the originally filed version
☐ a sequentisting	nence listing and/or any related tables – see supplemental box relating to sequence
3. □ The an	mendments have resulted in the cancellation of: Description: page Claims: No. Drawings: Sheet/Figs. Sequence listing (specify): any tables relating to the sequence protocol (specify):
and li the au suppl	report has been established as if (some of) the amendments annexed to this report sted below had not been made, since they have been considered in the opinion of athority to go beyond the disclosure as originally filed, as indicated in the emental box (Rule 70.2 c)). Description: page Claims: No. Drawings: Sheet/Figs. Sequence listing (specify): any tables relating to the sequence listing (specify):
* If Item 4 ap	oplies, some or all of the sheets may be marked "superceded".

Form PCT/IPEA/409 (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International Application No. PCT/EP2004/014788

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; documents and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims 1-9

No: Claims

Inventive step (IS)

Yes: Claims 1-9

No: Claims

Industrial applicability (IA) Yes:

Claims 1-9

No: Claims

2. Documents and explanations (Rule 70.7):

see supplementary sheet

Box No. VII Certain defects in the international application

The international application was found to have the following defects with regard to form or content:

see supplementary sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SUPPLEMENTARY SHEET)

International Application No. PCT/EP2004/014788

Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; documents and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: US-A-3 813 051 (MILLER H, US) 28th May 1974 (1974-05-28)
 - D2: DE 101 59 613 À1 (W. SCHLAFHORST AG & CO) 12th June 2003 (2003-06-12)
 - D3: DE 38 15 253 A1 (W. SCHLAFHORST & CO, 4050 MOENCHENGLADBACH, DE) 16th November 1989 (1989-11-16)
 - D4: DE 41 03 082 A1 (H. D. EICHELBERG & CO GMBH, 5750 MENDEN, DE; HDE METALLWERK GMBH, 5750) 27th August 1992 (1992-08-27)
- 2. The present application fulfils the requirements of Article 33(1), 33(2) and 33(3) PCT.

Claim 1:

Document D1, which is regarded as the closest prior art discloses (see column 3, line 24 to line 25 and Fig. 1) a drive roller for a textile machine producing cross-wound bobbins and, apart from the features of the preamble, also discloses the feature of the characterising part with regard to the thin-walled metal tube. However, D1 does not disclose that the metal tube is profiled by high-pressure internal forming.

No indication of this special production method, which leads to a very smooth surface with profiling of the metal tube and is easy and economical, is provided either from D1 or D2 or D3.

In the present case, the information about the high-pressure internal forming production process leads directly to the resulting product with the smooth, profiled surface. D4 indeed discloses the production method *per se* but not in conjunction with the profiling of metal tubes for the use of the drive roller in textile machines.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SUPPLEMENTARY SHEET)

International Application No. PCT/EP2004/014788

Proceeding from D1 and D2 or D3, the person skilled in the art would not use the production method of D4 either with the object set of a drive roller with a good service life, high entraining force and thread-smooth profiling, as this is indeed provided for different use purposes, but not for friction cylinders and certainly not for drive rollers profiled in this manner for cross-winding rollers in the textile sector.

As a result, the subject of claim 1 should meet the requirements of Article 33(2) and 33(3) PCT.

Claims 2 to 9:

The dependent claims 2 to 9 merely relate to special configurations of the invention, which also meet the above-mentioned criteria on the basis of the above-mentioned independent claim 1.

3. As the invention is technically producible and applicable, the conditions of Article 33(4) PCT are also met.

Item VII

Certain defects in the international application

In contradiction to the requirements of Rule 5.1 a) ii) PCT, neither the relevant prior art disclosed in document D1 to D3 nor these documents are disclosed in the description.